

DAN PAUL SMITH

Experience

B.S., Petroleum Engineering, Mississippi State University, 1973. Member, Society of Petroleum Engineers; past scholarship chairman and past continuing education chairman of Lou-Ark (Shreveport) Section. Registered Professional Engineer, State of Texas.

1980 - Petroleum Engineering Consultant and Senior Vice President, Netherland, Sewell & Associates, Inc., Dallas, Texas. Work includes oil and gas property evaluations, reserve estimates, reservoir analyses and geological studies, computer simulation studies, secondary and tertiary recovery studies, gas processing plant analyses, and evaluations of drilling prospects.

Significant CBM projects over the last 10 years have included multiple domestic projects in the Black Warrior, San Juan, Raton, Uinta, and Powder River Basins; and international work in Switzerland, Czech Republic, Israel, China, and Australia. Australian evaluations involve projects in the Gippsland, Gunnedah, and Bowen basins.

Recent major international projects include: coordinated reserves study of all Pemex Exploración y Producción (Pemex) offshore oil and gas fields and majority of onshore fields; led team that assisted Pemex in conducting study of exploration potential for all Mexican prospects in the Pemex portfolio, including probabilistic analysis, ranking, and portfolio assessment; conducted advisory work for Pemex to assist in the implementation of a company-wide economics evaluation system, conducted detailed review of entire annual investment portfolio of the company's capital projects, and participated in monthly Planning Committee meetings with management to assist in directing key company strategies; evaluated proved, probable, possible undeveloped, and exploration potential reserves and future revenue to the Offshore Production & Exploration Company, Inc. interest in gas properties located in the Block 12E Concession, Nam Con Son Basin, offshore Vietnam; coordinated study of all major Bolivian gas fields to determine deliverability available for a 2,000-mile gas pipeline to Brazil, including detailed gas-in-place determinations, Nodal analysis for gas flow capability, and economic estimates of future revenue and costs; conduct annual engineering evaluations of oil and gas fields located in the Western Desert of Egypt, including coordinating detailed geologic mapping of reservoirs, determination of volumetric oil- and gas-in-place, assessment of waterflood projects, and scheduling of future producing rates; evaluated the interest of Conoco Egypt, Inc. in Egyptian properties and assisted in successful efforts to sell their interest in the fields; reviewed the gross reserves and operating costs for potential acquisition of the P.T. STANVAC Indonesia (a joint venture between ESSO and Mobil Corporation) properties located in central and southern Sumatra, Indonesia, including the Kampar, Rimau, and Pasemah Production Sharing Contracts on behalf of Goldman Sachs (Asia), L.L.C. and its partners; conducted a comprehensive study of the gas and condensate reserves of the F Structure Field in the Tainan Basin, offshore Taiwan, on behalf of Chinese Petroleum Company; conducted detailed field study of the Diadema Concession in the San Jorge Basin of eastern Argentina, including primary development analysis, waterflood project implementation studies, and horizontal drilling reserve evaluations for Compañías Asociadas Petroleras S.A.; evaluated 18 oil and gas fields, including gas-cycling fields, oil fields, and exploration prospects, offered for sale by YPF in the Austral Basin of Argentina, including Tierra del Fuego; conduct annual evaluations of the Pecten Cameroon Company offshore holdings located in Cameroon, Africa, at the request of the International Finance Corporation, including supervision of geological and geophysical evaluation of over 300 reservoirs; coordinated development and secondary recovery studies for the Cantarell Field Complex, the sixth largest oil

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field in the world, and recommended the implementation of nitrogen injection and provide advisory petroleum reservoir engineering, simulation, geological, and technical services to Pemex on behalf of this project since 1996, the project is proceeding at Pemex's Akal Field of the Cantarell Complex located in the Bay of Campeche, offshore Mexico, and will include the largest nitrogen generation plant in the world, supplying as much as 1.2 billion cubic feet of nitrogen per day when at full capacity; conducted annual reserves evaluations of all oil and gas assets held by two Trinidad and Tobago government-owned oil and gas companies, Trintopec and Trintoc, consisting of approximately 3,000 onshore and approximately 400 offshore wells; evaluated all oil and gas holdings of Petrotrin Limited, formed by the consolidation of Trintopec and Trintoc, including onshore production located in the Southern Basin, offshore fields located in the Soldado Area off the southwest coast of Trinidad, and a deep offshore gas condensate field (the L-Block Concession) located off the southeast coast of Trinidad; conducted extensive geological mapping of the L-Block Field and prepared engineering estimates of reserves and economics.

Recent major domestic projects include: evaluated coalbed methane reserves for multiple clients in the San Juan, Powder River, and Black Warrior Basins of the United States including assessment of proved, probable, and possible reserves and assisted in designing development plans; conducted geological, petrophysical, and reservoir engineering study of the San Miguelito Field in the Ventura Basin of California for Conoco, Inc, which involved the evaluation of over 100 wells along with production and injection facilities for the steeply dipping reservoirs in the field; participated with Conoco Inc. management to restructure their investment portfolio by identifying strategic asset sales for its Western Division and facilitated the divestiture of property packages in New Mexico, northwestern Oklahoma, southern Oklahoma, the Rocky Mountains, South Texas, and West Texas; evaluation of West Starks Field in South Louisiana, including evaluation of partial pressure maintenance gas injection project.

- 1975 - 1980 Senior Petroleum Engineer, Shreveport District, Pennzoil Producing Company, Shreveport, Louisiana. Work included waterflood evaluations, unitization implementation, surveillance of oil and gas fields in the Gulf Coast area, planning and installation of gas injection and carbon dioxide injection projects, workover recommendations, reservoir evaluation using computer simulation, and drilling program evaluation. Served as chairman of the engineering subcommittee for the Walker Creek Unit gas injection pressure maintenance project, a large carbonate reservoir in southern Arkansas under gas cycling operations. Attended industry schools in advanced reservoir engineering, computer simulation, surface facilities, and workover operations.
- 1973 - 1975 Project Engineer, Harvey District, Exxon Company, U.S.A., New Orleans, Louisiana. Work included reservoir management of oil and gas reservoirs in the Gulf Coast area and planning and installation of a polymer injection project. Attended Exxon's Reservoir, Logging, and Economics Schools.

References

Avi Hofman
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Barrett Resources, Inc.

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William E. Earnest
Conoco Inc.

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